

**Figure 1**

gaattcggcaccgagcccgatatactgtgctttgcaactaactccatccgtaaat aattttaatataat aattaaa

F G E T F D V M R E A L L R V K S S 35  
TTT GGT GAG ACG TTT CAT GTG ATG AGG GAA GCT TTG CTT CGT CTA AAC TCC TCT 174

E	E	L	A	M	L	R	A	L	A	G	M	C	G	H	R	V	<u>L</u>	53
GAA	CGC	TTG	GCA	ATG	CTC	AGA	GCG	CTT	GCA	GGA	ATG	TGC	GGT	CAC	CGC	GTC	CTT	232

P G T G A E A I A A T V T F K G A S 71  
CCT GGC ACT GGT GCT TCT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

M	E	L	K	P	P	R	P	Q	S	T	K	S	P	E	L	R	E	89
ATG	AAG	CTT	AAA	CCA	CCG	CGT	CCG	CAG	TCA	ACG	AAG	TCT	CCG	GAG	CTC	AGG	GAG	341

L S R K I F E M N K T I S Q E S A R 107  
CTG TCA CGG AAG ATT CGC GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

V N H R L P E G H P L L E K R A E Y 125  
GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA **TAT** 449

[illegible]

1000

Figure 2

EcoRI

gaattcggcagcagccctgctatactgtgctttgcaactaactccatcgtaataattttaataataataaaa12

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      M E S T S T T T N F V A E N R P T 17
14 ATG GAG TTT ACA TTA ACA ACG ACC AAC TTT GTT GCG GAG AAC CGT CCG ACC 125

      F G E T F C V M R E A L L R V K S S 35
17 TTT GAT GAG ACC TTT GAT GTT ATG AGG GAA GGT TTG GTT CGT GTA AAG TCG TCT 179

      E K L A M L R A L A I M I I H R V L 53
20 GAA GGT TTG GCA ATG GTT AGA GCG GTT GCA GGA ATG TGG GGT CAC CGC GTT GTT 233

      P G T G A C A I A A T V T P K G A S 71
23 GCT GGC ACT GGT GCT TTT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

      M K L K P P R P Q S T K S P E L R E 89
26 ATG AAG GTT AAA CCA CCG CGT CCG CAG TCA ACG AAG TCT CCG GAG CTC AGG GAG 341

      L S R K I R E M N K T I S Q E S A R 107
29 CTG TCA CCG AAG ATT CCG GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

      V N E R L P E G H P L L E K F A E Y 125
32 GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA TAT 449

      F V T L D L L R A K E S I D S S K K 143
35 (T) TTC GTC ACC TTA GAT CTC TTA AGA GCC AAG GAG TCA ATA GAC TCA TCT AAC AAG 504

      A L R R Y R A S M R N T N R L V H N 161
38 GCA CTA CGT AGG TAC CGT GCC TCT ATG AGG AAT ACG AAC CGA CTA GTG CAC AAT 558

      R F P V L P K V E P D S N L P F G Q 179
41 AGA CGA CCA GTT CTA CCA AAG GTA GAG CCT GAC TCT AAT CTA CCA TTC GGC CAG 612

      R R S R M T T W N L R P R R I G Y P 197
44 CGA CGG AGT CGC ATG ACA ACG TGG AAT CTT AGA CCA CGC CGG ACG GGT TAT CCG 666

      S N S P L A V T E L L I S I Y R S N 215
47 TCA AAT GGT ACT TTC GCA GTT ACG GAA CTC GTG ATC TCG AIT TAT AGA TCA AAC 720

      F Y T L K V V E E G R C T C C N T H 233
50 TTC TAC ACC TTG AAG CTG GTC GAG GAA GGG AGA TGT ACG TGC TGC AAC ACC CAT 774

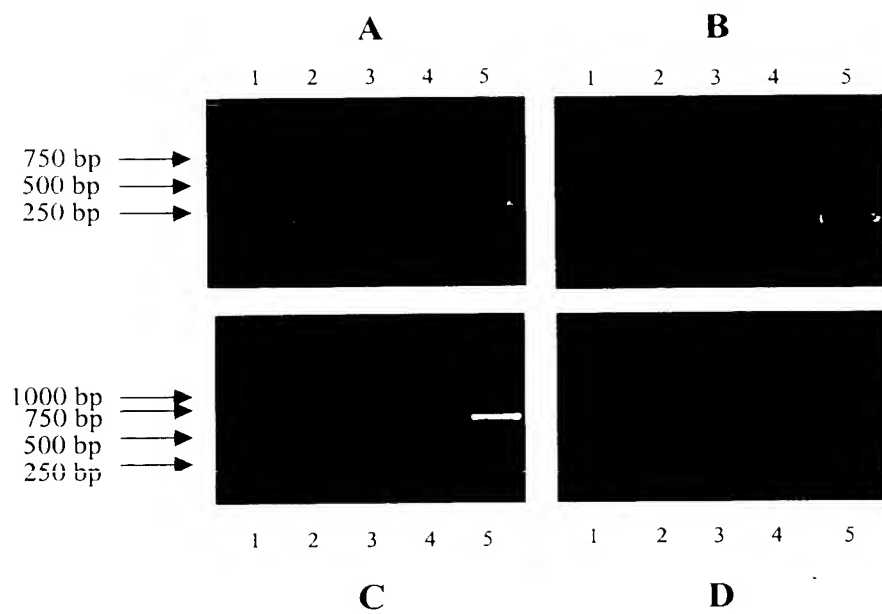
      K E Q A L L L L S G Y L Q L Y R A L 251
53 AAG GAG CAA GCT TTG CTA CTC CTA TCC GGT TAC CTC CAG CTA TAT CGT GCA CTG 828

      H S V G R S V F V E Y I K T R I V Y 269
56 CAC TCA GTT GGA AAG TCT GTA TTC GTA GAA TAC TGC AAA ACC AGG ATA TGC GTC 882

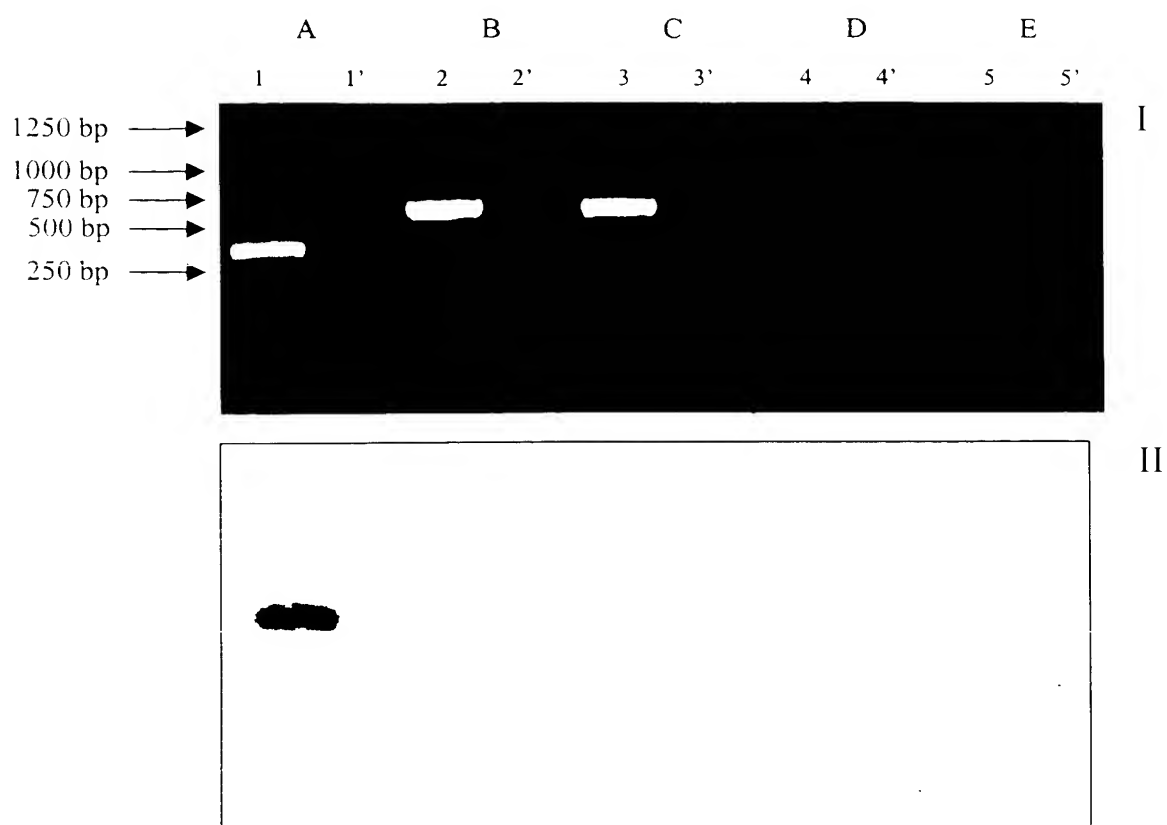
      E A R T T L R P R V T L T G C 285
59 GAT CTA GAT TTA ATT GAA CTA GTT GAA ATT TTA ATT TTA ATT TTA ATT TTA ATT TTA 936

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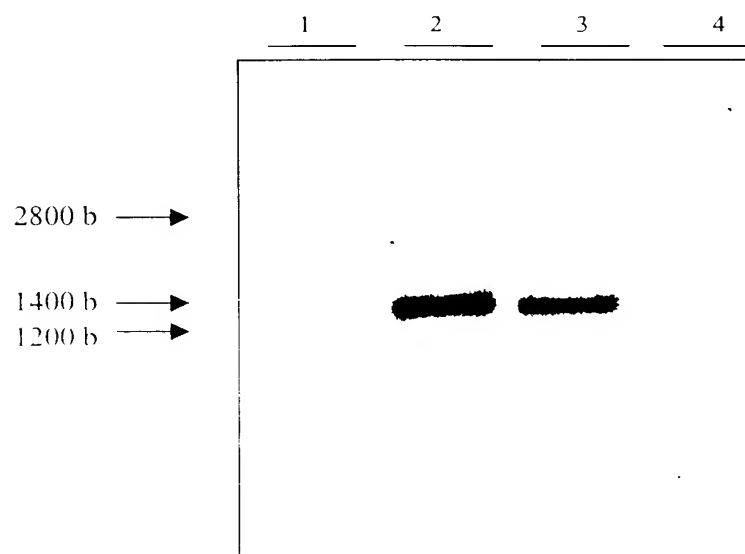
Figure 3

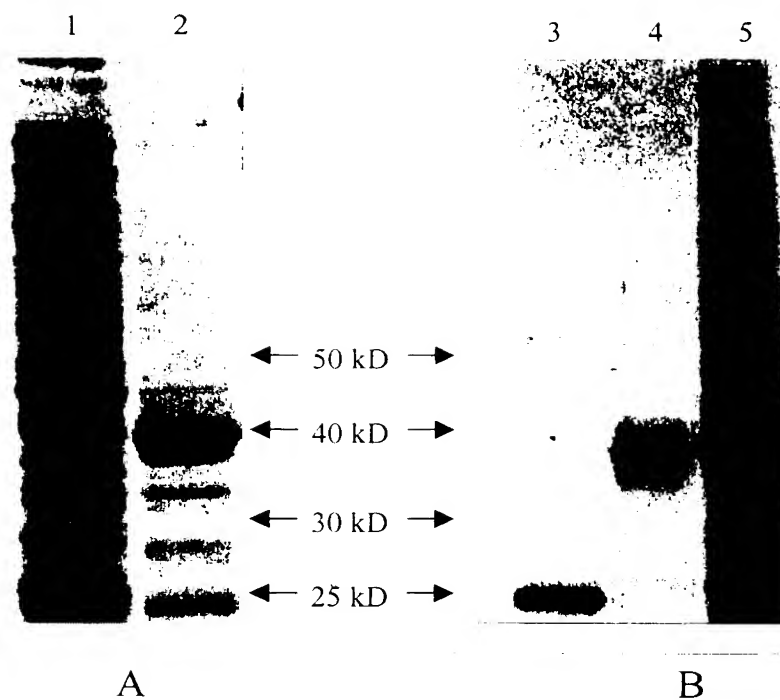


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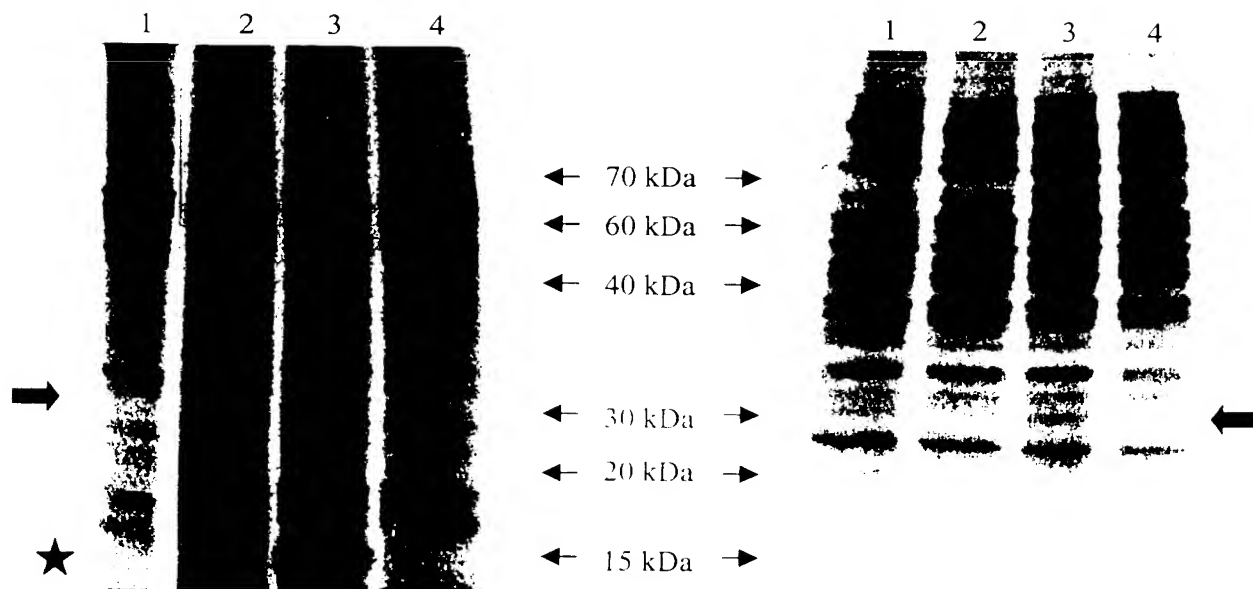


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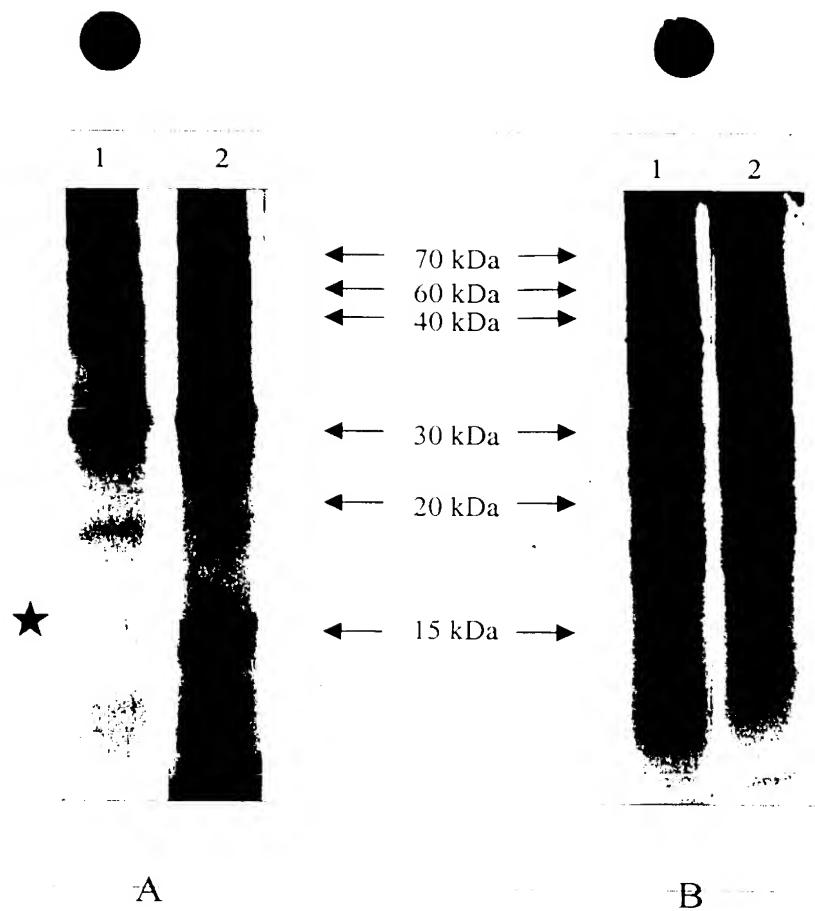




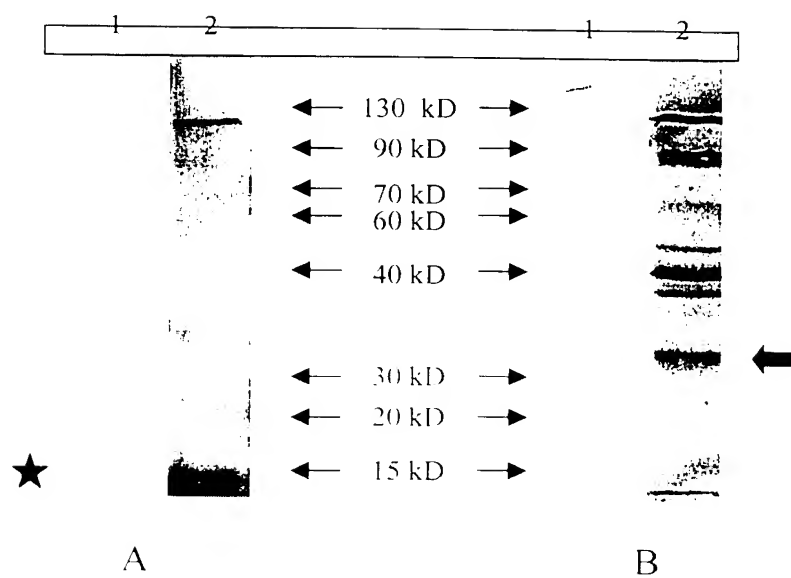
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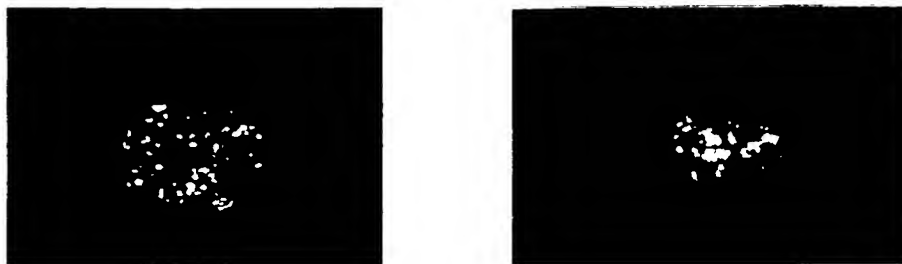
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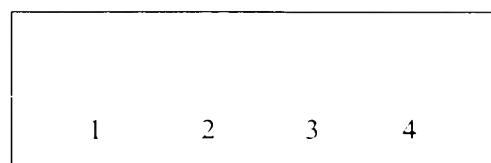
**Figure 9.**



**Figure 10**



**Figure 11**



1

2

3

4

2

2

← 70 kDa

← 60 kDa

← 40 kDa



← 30 kDa

← 20 kDa



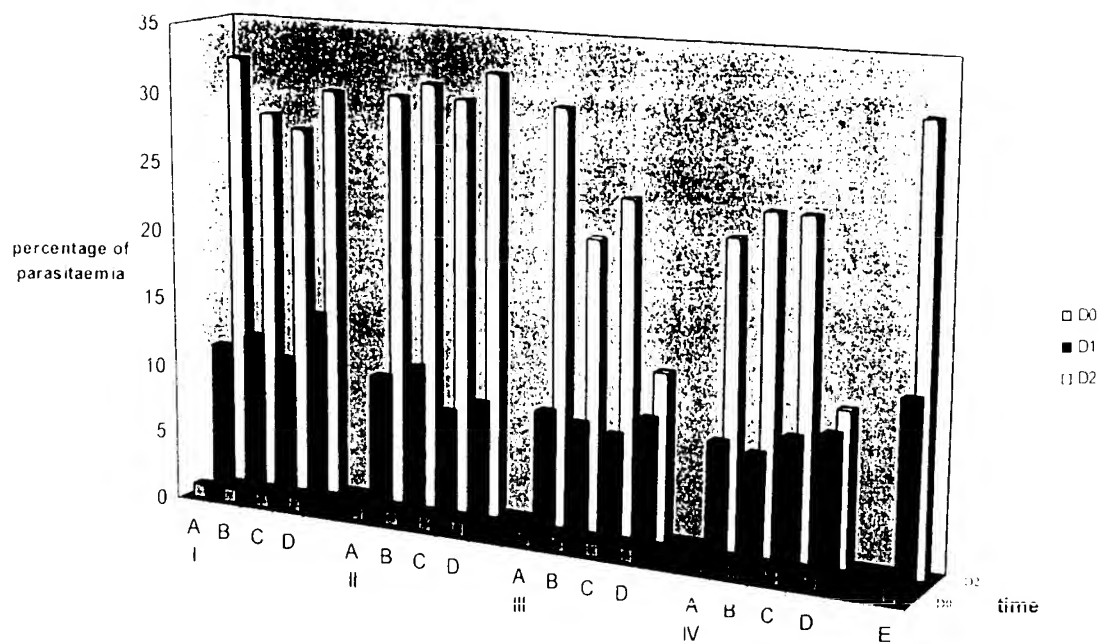
← 15 kDa



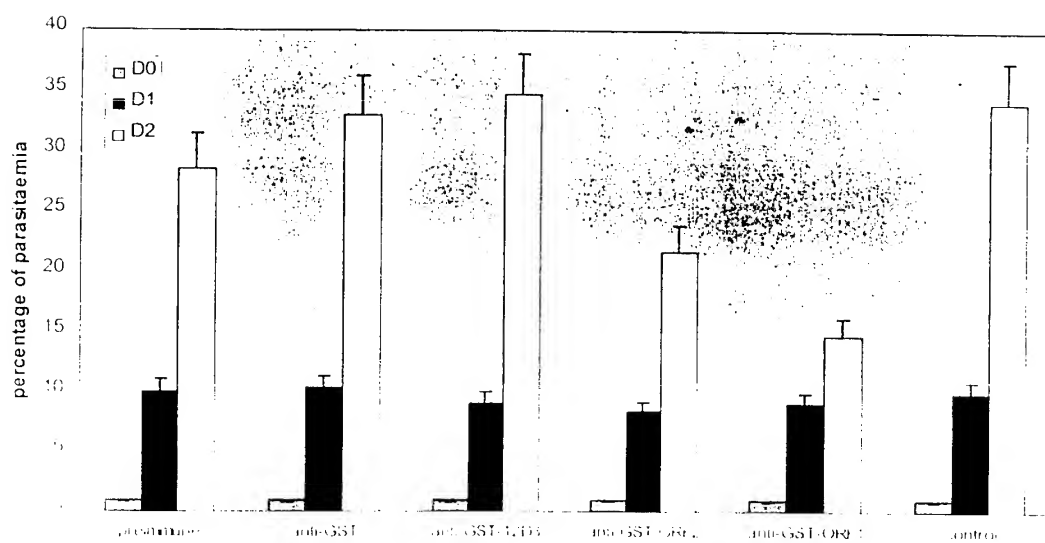
15 kDa

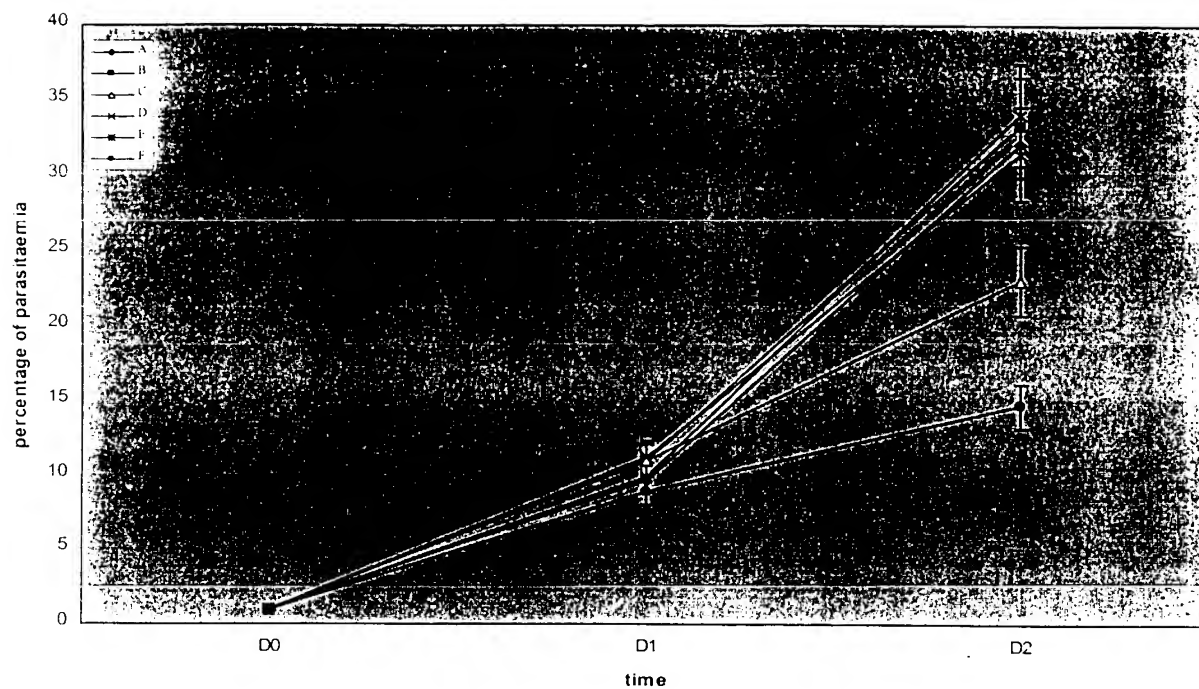
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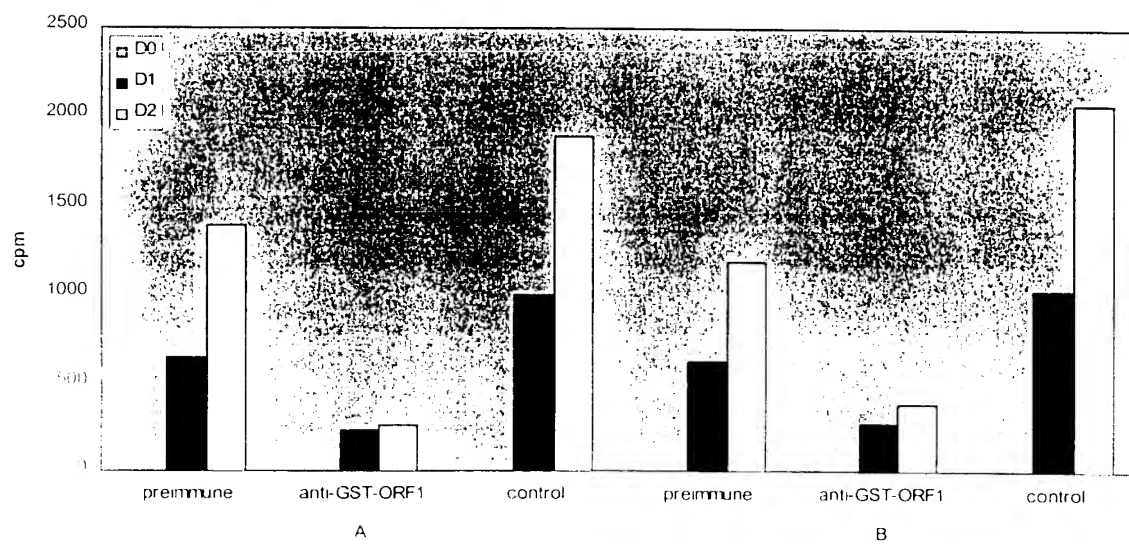


**Figure 13**

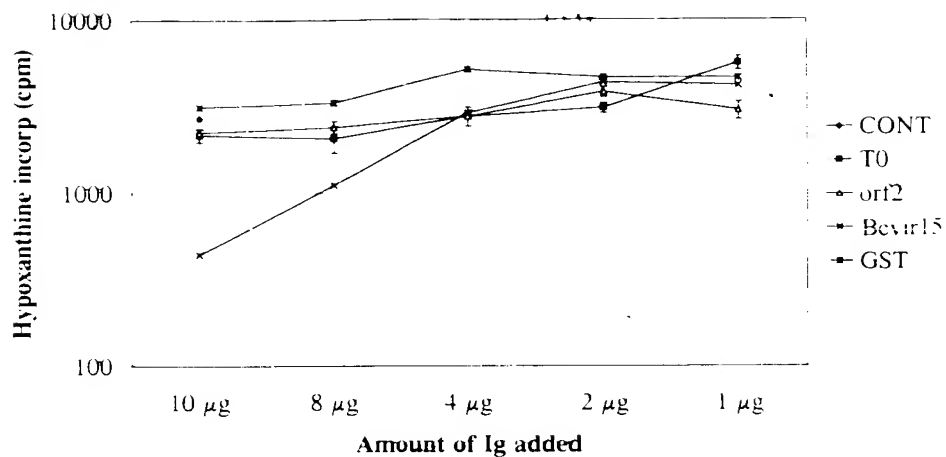




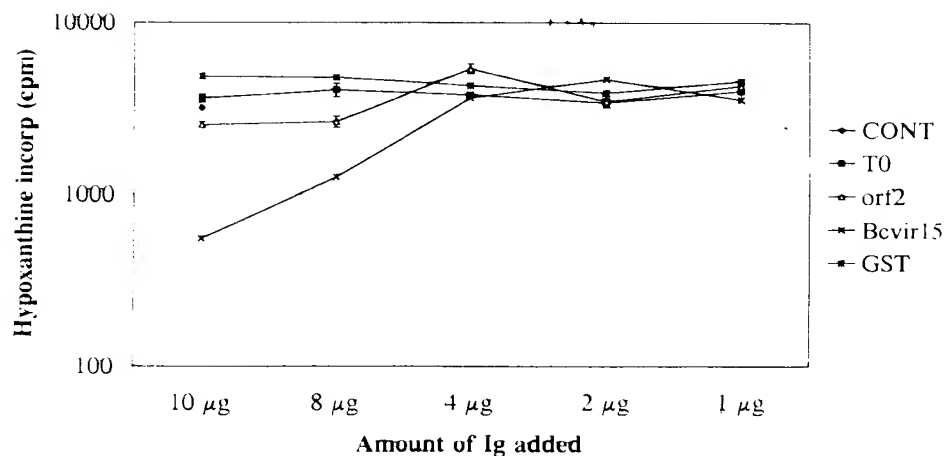
**Figure 16**



### Inhibition *in vitro* *B. canis* A



### Inhibition *in vitro* *B. canis* B



### Inhibition *in vitro* *B. rossi* M

